

CHAPTER 7

TRANSPLANT WAITING LIST

**Data from
the National Organ Matching Scheme (Australia)
and New Zealand Kidney Allocation Scheme**



*Australia &
New Zealand Dialysis
& Transplant Registry*



Transplant Waiting Lists

In this chapter, information is presented about the active waiting list of deceased donor kidneys in Australia. The material presented is extracted from the National Organ Matching Scheme (NOMS) annual report, the full text of which is available at <http://tsanz.com.au/downloads/2010%20NOMS%20Analysis.pdf> In previous years, analyses have been presented after matching of this data with ANZDATA registry. This matching process underwent a re-examination in 2011, and a more sophisticated data linkage process is under development with an expected completion date of mid 2012.

In the interim, we have included tables and data from the annual report of the National Organ Matching Scheme. The interpretation and text are those of the ANZDATA report's editors. The data has not been matched with ANZDATA registry, and therefore may include a small number of patients who have been listed for transplantation prior to starting dialysis.

In subsequent reports, a more substantial exposition of issues surrounding the waiting list is anticipated following completion of the revised matching algorithms

AUSTRALIA.

In figure 7.1, the number of patients on the active waiting list for a kidney transplant over the past 18 years is tabulated in Figure 7.1, and the most recent figures are broken down by jurisdiction in figure 7.2 and by sensitization in figure 7.3 and by blood group in figure 7.4.

Figure 7.1 Numbers of people on active kidney transplant waiting list by year (Australia).

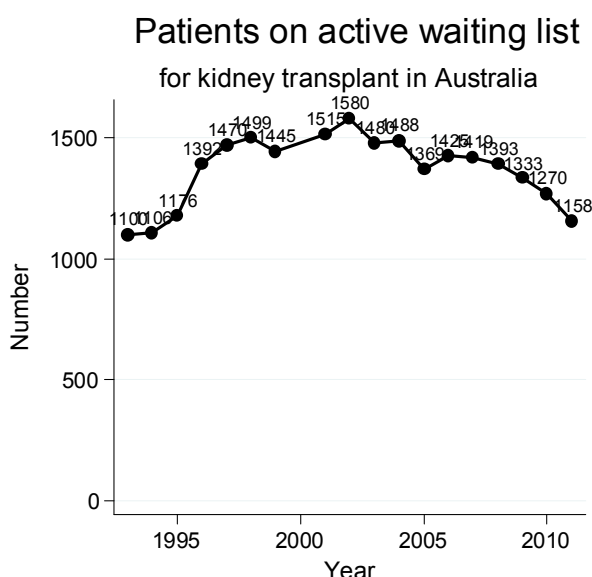


Figure 7.2

Number of active patients awaiting kidney transplant by state or territory.

State/Territory	Number of active patients	Percentage of all patients
NSW	503	43%
VIC	318	28%
QLD	128	11%
WA	95	8%
SA	43	4%
ACT	45	4%
TAS	17	1%
NT	9	1%
ALL	1158	100%

Figure 7.3

Percentage authorized Class 1 peak panel reactive antibody (PRA) levels of all active patients awaiting kidney transplant.

Patient peak PRA	Number of patients	Percentage of all patients
Not entered	102	9%
0 – 20%	789	68%
21- 50%	122	11%
51- 80%	84	7%
81-100%	61	5%
ALL	1158	100%

Figure 7.4

ABO blood groups of all active patients awaiting kidney transplant.

Patient ABO blood group	Number of patients	Percentage of all patients
A	350	30%
AB	15	1%
B	174	15%
O	619	54%
ALL	1158	100%

Waiting times (figure 7.5) in this dataset are calculated from the time of first entry into active cadaveric transplant waiting lists, not the date of first dialysis.

Figure 7.5			
Time waiting on dialysis (in years) of all active patients awaiting kidney transplant and patient ABO blood group.			
Patient ABO blood group	Avg	Median	Maximum
A	3.1	2.6	18.4
AB	4.1	4.0	10.5
B	4.0	3.4	19.2
O	3.7	3.2	16.7
ALL	3.6	3.1	19.2

Figure 7.6										
Age of all active patients awaiting kidney transplant.										
State/Territory	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80+	ALL
NSW/ACT	2	10	32	67	117	155	145	19	1*	548
VIC/TAS	0	4	16	43	70	108	91	3	0	335
QLD	1	0	13	19	36	34	24	1	0	128
WA	0	5	9	12	21	30	18	0	0	95
SA/NT	0	1	4	10	10	15	11	1	0	52
ALL	3	20	74	151	254	342	289	24	1	1158
% of total	0%	2%	6%	13%	22%	30%	25%	2%	0%	100%

The distribution of waiting times by age (figure 7.6) shows substantial variation between different jurisdictions. For example, 30% of patients on the waiting list in New South Wales are 60 years or older, but only 19% of patients in Western Australia, 20% of patients in Queensland and 23% of patients in South Australia on the waiting list are 60 years or older.

The great majority of patients are waiting for their first transplant (figure 7.7). Comparison of waiting times between different jurisdictions (figure 7.8) shows considerable variations in waiting list time.

Figure 7.7		
Number of previous transplants of all active patients awaiting kidney transplant.		
Number of previous transplants	Number of patients	% of all patients waiting
0*	912	79%
1	208	18%
2	31	3%
3	7	0%
ALL	1158	100%

Figure 7.8			
Time waiting on dialysis (in years) for all active patients awaiting kidney transplant and patient state or territory.			
State/Territory	Avg	Median	Maximum
SA	2.4	1.6	8.5
TAS	2.5	1.8	6.3
QLD	2.8	2.3	11.4
WA	3.2	2.7	19.2
VIC	3.4	2.9	16.7
NSW	4.0	3.6	18.4
NT	4.1	3.3	8.4
ACT	4.1	3.5	12.0
ALL	3.6	3.1	19.2



NEW ZEALAND.

The data for New Zealand is supplied by the Tissue Typing section of the NZ Blood Service. Figure 7.9 demonstrated the number on the waiting list each year, with a progressive increase over recent years. These are subdivided by the transplanting unit, and the caring renal unit in table 7.10.

Further subdivisions by panel reactive antibody and blood group are shown in figure 7.11 and 7.12.

Times on the waiting list (Figure 7.13) are similar across the various ABO blood groups. However, the waiting times do vary with the transplant unit (Fig 7.14). Almost 30% of people on the active waiting list in New Zealand are 60 years or older, a similar proportion to Australia (Fig 7.15).

Figure 7.9 Numbers of people on active kidney waiting list by year (New Zealand).

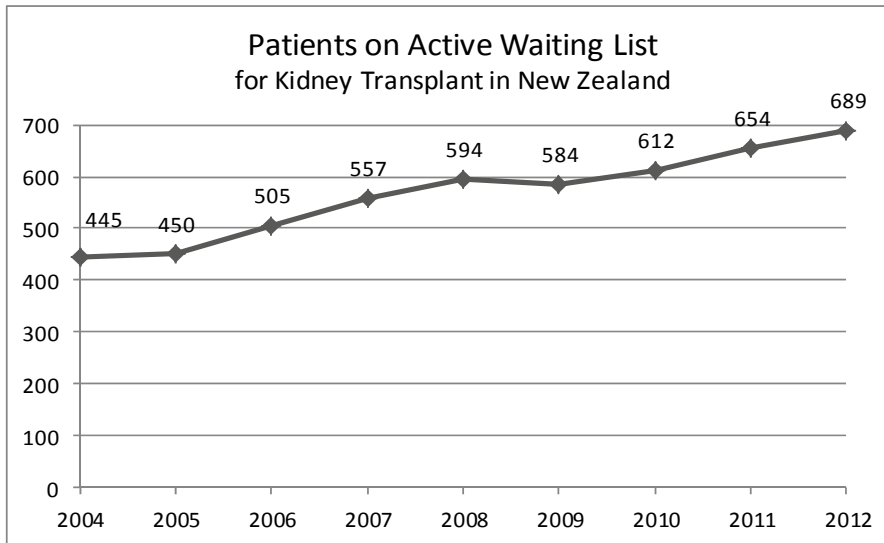


Figure 7.10

Number of active patients awaiting kidney transplant by transplant unit/renal unit

Transplant unit	Number of active patients	Percentage of all patients
AUCKLAND	492	71
WELLINGTON	129	19
CHRISTCURCH	68	10
TOTAL	689	100

Figure 7.11

Percentage authorized Class 1 peak panel reactive antibody (PRA) levels of all active patients awaiting kidney transplant.

Patient peak PRA	Number of patients	Percentage of all patients
not entered	35	5
0-20%	555	81
21-50%	26	4
51-80%	30	4
81-100%	43	6
Total	689	100

Figure 7.12

ABO blood groups of all active patients awaiting kidney transplant.

Patient ABO blood group	Number of patients	Percentage of all patients
not yet grouped	19	3
A	245	36
AB	24	3
B	100	15
O	301	44
All	689	100

Figure 7.13				Figure 7.14			
Time waiting on dialysis (in years) of all active patients awaiting kidney transplant and patient ABO blood group.				Time waiting on dialysis (in years) for all active patients awaiting kidney transplant and patient state or territory.			
Patient ABO blood group	Avg	Median	Maximum	State/Territory	Avg	Median	Maximum
A	3.03	2.25	24.58	Auckland	3.16	2.46	16.17
AB	3.13	2.04	11.25	Wellington	3.65	2.83	24.58
B	2.42	2	7.17	Christchurch	2.47	1.75	12.58
O	3.31	2.5	15.83				
ALL	3.08	2.25	24.58	ALL	3.08	2.25	24.58

Figure 7.15										
Age of all active patients awaiting kidney transplant.										
State/Territory	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80+	ALL
AUCKLAND	3	12	40	53	92	143	124	25	0	492
WELLINGTON	0	0	19	10	28	35	34	3		129
CHRISTCHURCH	0	1	3	7	17	23	14	3	0	68
ALL	3	13	62	70	137	201	172	31	0	689
% of total	0.4	1.9	9.0	10.2	19.9	29.2	25.0	4.5	0.0	100.0

Figure 7.16		
Number of previous transplants of all active patients awaiting kidney transplant.		
Number of previous transplants	Number of patients	% of all patients waiting
0	586	85
1	82	12
2	16	2
3	4	1
4	1	0
ALL	689	100

*Note: Figures 7.9 - 7.16, include advanced data up to 2012.